



9/B 3743

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Per SANDBERG

Art Unit: 3743

Application No: 09/914,886

Examiner:  
Leonard R. Leo

Filed: January 7, 2002

For: COOLING ELEMENT FOR A HEAT  
EXCHANGER

REPLY TO THE OFFICE ACTION MAILED 10/09/2002

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

RECEIVED  
NOV 22 2002  
TECHNOLOGY CENTER R3700

Further examination and consideration of this application  
are requested in view of the following Amendments and Remarks.

AMENDMENTS

In the Description:

**Rewrite the paragraph beginning on page 1, line 9, to  
read as follows:**

In heat exchangers used in automotive industry for  
cooling a motor in a vehicle, a fin is generally made of a  
corrugated strip. The corrugated strip itself is made of  
copper, copper-based alloy or aluminium or aluminium-based  
alloy and this corrugated strip is installed between  
circulating elements where medium to be cooled is circulated.  
The corrugated strip has a strong metallic bond with these  
circulating elements of medium to be cooled. The metallic  
bond is made by a braze or a solder material. One corrugated  
strip creates many cooling elements, fins, between circulating  
elements and the fins are provided with louvers for improving  
heat transfer capacity. Further, the fins positioned between  
two circulating elements are installed substantially  
perpendicularly to the longitudinal direction of the fin  
strip. When these kind of fins are cut in the middle between